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(71) Applicants and

(72) Inventors: JENSENIUS, Jens, Christian [DK/DK]; Fin-
sens Allé 28, DK-5230 Odense (DK). THIEL, Steffen
[DK/DK]; Nordtoftevej 11, DK-8240 Risskov (DK).

(74) Agent: HØIBERG APS; St. Kongensgade 59B, DK-1264
Copenhagen K (DK).

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MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
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For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: MASP-2, A COMPLEMENT-FIXING ENZYME, AND USES FOR IT

(57) Abstract: The present invention relates to substantially pure mannan-binding lectin associated serine protease-2 (MASP-2) polypeptides and fragments thereof as well as nucleic acids encoding such polypeptides. Furthermore, the present invention relates to uses of a substantially pure polypeptide comprising amino acid sequences derived from mannan-binding lectin associated serine protease-2 (MASP2) or a functional homologue thereof for the production of a pharmaceutical composition as well as pharmaceutical compositions comprising MASP-2 and/or MASP-2 fragments. In addition the present invention relates to inhibitors of MASP-2 and pharmaceutical compositions comprising such inhibitors. Methods for detecting MASP-2 nucleic acid expression are included in the invention.

WO 02/06460 A3

INTERNATIONAL SEARCH REPORT

Intern. Application No
PCT/DK 01/00499

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N9/64 C12N15/12 C07K14/47 C07K16/18 G01N33/573
A61P31/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C07K G01N A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, EMBL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	WO 01 40451 A (THIEL STEFFEN ;JENSENIUS JENS CHRISTIAN (DK)) 7 June 2001 (2001-06-07) claims 1-76	61,62, 64-68, 74-77
A	WO 01 12212 A (BRIGHAM & WOMENS HOSPITAL) 22 February 2001 (2001-02-22) claims 1-29	61,62, 64-68, 74-77



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Fernando Farieta

INTERNATIONAL SEARCH REPORT

International Application No
PCT/DK 01/00499

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 00 55180 A (HUMAN GENOME SCIENCES INC ;ROSEN CRAIG A (US); RUBEN STEVEN M (US)) 21 September 2000 (2000-09-21)	61,62, 64-68, 74-77, 91-100
A	claims 1-74 -& DATABASE GSP [Online] retrieved from EMBL Database accession no. AAB58273 XP002902154 45% identity with SEQ. ID. No. 2 in 288 aa overlap	7
A,P	--- EP 1 033 401 A (GENSET SA) 6 September 2000 (2000-09-06) the whole document -& DATABASE GSP [Online] retrieved from EMBL Database accession no. AAG01729 XP002902155 45% identity with SEQ. ID. No.1 in 31 aa overlap	5
A	--- US 6 008 017 A (ARLETH ET AL) 28 December 1999 (1999-12-28) the whole document -& DATABASE GPOP [Online] retrieved from EMBL Database accession no. AAE42150 XP002902156 37% identity with SEQ. ID. No.2 in 163 aa overlap	9
A,P	--- WO 01 10902 A (CURAGEN CORP ;FERNANDES ELMA (US); SHIMKETS RICHARD A (US)) 15 February 2001 (2001-02-15) the whole document -& DATABASE EPOP [Online] retrieved from EMBL Database accession no. AX084224 XP002902157 55% identity with SEQ. ID. No.1 in 29 aa overlap --- -/--	5

INTERNATIONAL SEARCH REPORT

Intern. Application No
PCT/DK 01/00499

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PATENT ABSTRACTS OF JAPAN vol. 1999, no. 10, 31 August 1999 (1999-08-31) & JP 11 123085 A (SMITHKLINE BEECHAM CORP), 11 May 1999 (1999-05-11) abstract -& DATABASE JPOP [Online] retrieved from EMBL Database accession no. E74405 XP002902158 37% identity with SEQ. ID. No.2 in 275 aa overlap -----</p>	14

INTERNATIONAL SEARCH REPORT

International application No.
PCT/DK 01/00499

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 22-32, 88, 89
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims: it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Claims Nos.: 22-32 , 88, 89

Claims 22-32, 88-89 relate to methods of treatment of the human or animal body by surgery or by therapy/ diagnostic methods practised on the human or animal body / Rule 39.1.(iv). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds /compositions.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern. Patent Application No

PCT/DK 01/00499

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